CS308 Homework Assignment 4

Due date: ___________________

General info: Turn in all problems by paper and by email (to dbahr@Regis.edu with “CS308 Homework” in the subject line).

Problem #1: Write a program using “for” statements that print the following sequence of numbers:
   (a) -3, 2, 7, 12, 17
   (b) 25, 18, 11, 4, -3, -10
   (c) 2, 4, 8, 16, 32

   Hint: Look at the difference between successive pairs of numbers. You should see a pattern. Also remember that “for(int i=0; i<=10; i+=2)” will increment from 0 to 2 to 4 to 6 to 8 to 10 because it says i+=2. Don’t forget about ++, --, +=, -=, *=, /=, etc.

Problem #2: Ditto problem #1, but use “while” loops.

Problem #3: Write a program that takes a one-line sentence as input and then outputs the following response: If the sentence ends with a question mark ‘?’ and the input contains an even number of characters, then output the word “Yes”. If the sentence ends with a question mark ‘?’ and the input contains an odd number of characters, then output the word “No”. If the sentence ends with an exclamation mark ‘!’ , output the word “Wow.” In all other cases, output the string “You always say ” followed by the input string enclosed in quotes. Be sure to include these quotes!

For full credit your program must work if I type in the following sentence: You put a “.” in the middle of a sentence?!